

## ABSTRACT

### Method for manufacturing crystalline powder of a lithium and vanadium oxide

This invention relates to a method for manufacturing a crystalline powder of a composite lithium and vanadium oxide with formula  $\text{Li}_{1+x}\text{V}_3\text{O}_8$ , where  $x$  is between 0 and 0.2, comprising:

- formation of an aqueous suspension starting from an  $\text{NH}_4\text{VO}_3$  paste and monohydrated lithia powder,  
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- continuous dehydration of this suspension in a hot gas current at a temperature of between 200 and 600°C, to form a dry powder of a precursor with a size grading of between 10 and 100  $\mu\text{m}$ ,
- calcination of this precursor at a temperature of between 380 and 580°C to  
10 form a crystalline powder of  $\text{Li}_{1+x}\text{V}_3\text{O}_8$ .

The product thus obtained will be used particularly for manufacturing electrodes for lithium rechargeable batteries.